

## **SPEED-ADAPTIVE AND PATIENT-ADAPTIVE PROSTHETIC KNEE**

### **Abstract of the Disclosure**

The invention relates to an automated speed-adaptive and patient-adaptive control scheme and system for a knee prosthesis. The control scheme and system utilizes sensory information measured local to the prosthesis to automatically adjust stance and swing phase knee resistances to a particular wearer under a wide variety of locomotory activities. Advantageously, no patient-specific information needs to be pre-programmed into the prosthetic knee by a prosthetist or the patient. The system is able to adapt to various types of disturbances once the patient leaves the prosthetist's facility because it is patient-adaptive and speed-adaptive.

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